



## GV5000



### Overview

GV5000 is a desktop diamond verification instrument for loose and mounted stones designed to separate diamonds, synthetic diamonds and diamond simulants. GV5000 is manually operated and requires the user to interpret the test results.

GV5000 captures multiple images and based on visual analysis of the images, and support from a decision tool, the operator concludes the nature of the stones. The following results can be concluded by the operator based on the data generated by the GV5000:

- i) Diamond
- ii) Synthetic diamond
- iii) Diamond simulant
- iv) Refer

The 'Refer' result could contain potential synthetic diamonds and diamonds. These referrals should be tested further for full verification. GV5000 needs to be recalibrated before usage or after it has been moved.

### Stone Testing Capabilities

Weight range: **0.002 ct - 20 ct**  
 Size of Stones: **0.7 mm - 20 mm**  
 Colour range: **D-N**  
 Stone shape: **All**  
 Diamond simulants: **Yes**  
 Mounted stones: **Yes** not yet ASSURE tested

### Instrument Capabilities


Automated feed: **No**  
 Automated results: **No**  
 Automated dispense: **No**  
 Detect or Refer (synthetic diamonds): **Detect**  
 Detect or Refer (diamond simulants): **Detect**  
 Multiple stones at once: **Yes**  
 Training required: **Yes** review user manual

### Instrument Performance

The results demonstrate the performance of the GV5000 tested by an expert operator:

	Core Sample	Smalls Sample
<b>Diamond False Positive Rate</b> <i>Optimal rate 0%</i>	1.0%	0.3%
<b>Diamond Referral Rate</b> <i>Optimal rate 0%</i>	N/A	N/A
<b>Diamond Accuracy Rate</b> <i>Optimal rate 100%</i>	98.5%	97.5%
<b>Speed</b> <i>Stones tested per hour</i>	296	296

### Instrument Specifications

 50 cm (W) x 25 cm (D) x 61 cm (H)

 17 kg

Price: 43,200 USD February 2019

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